

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Raritan Bay Slag Site - Remedial - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region II

**Subject:** POLREP #4  
Progress  
Raritan Bay Slag Site - Remedial  
A205  
Old Bridge, NJ  
Latitude: 40.4543218 Longitude: -74.2381070

**To:** Peter Lopez, ORA  
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**From:** Andrew L. Confortini, OSC

**Date:** 9/7/2017

**Reporting Period:** August 19, 2017 to September 7, 2017

## 1. Introduction

### 1.1 Background

|                            |              |                                |             |
|----------------------------|--------------|--------------------------------|-------------|
| <b>Site Number:</b>        | A205         | <b>Contract Number:</b>        | EP-S2-15-02 |
| <b>D.O. Number:</b>        | D.O.#47/#54  | <b>Action Memo Date:</b>       |             |
| <b>Response Authority:</b> | CERCLA       | <b>Response Type:</b>          |             |
| <b>Response Lead:</b>      | EPA          | <b>Incident Category:</b>      |             |
| <b>NPL Status:</b>         | NPL          | <b>Operable Unit:</b>          |             |
| <b>Mobilization Date:</b>  | 2/21/2017    | <b>Start Date:</b>             | 2/21/2017   |
| <b>Demob Date:</b>         |              | <b>Completion Date:</b>        |             |
| <b>CERCLIS ID:</b>         | NJN000206276 | <b>RCRIS ID:</b>               |             |
| <b>ERNS No.:</b>           |              | <b>State Notification:</b>     |             |
| <b>FPN#:</b>               |              | <b>Reimbursable Account #:</b> |             |

#### 1.1.1 Incident Category

On-going release of heavy metals into adjacent soil, wetlands and water. The source of the heavy metals are related to the waste created during the recovery of lead from used batteries. The waste is primarily in the form of slag and battery casings. This waste was used as fill in the Margaret's Creek portion of the Site. The presence of this waste has been confirmed and will be removed and disposed off-site. This work is being performed as a Remedial Action pursuant to the Record of Decision (ROD) for the Site.

#### 1.1.2 Site Description

The Margaret's Creek Sector of the Raritan Bay Slag Site is approximately 47-acres of open space consisting of wetland and upland areas. Portions of the upland area is filled with slag and battery casings. The slag was brought to the Site approximately 50 years ago.

##### 1.1.2.1 Location

The Margaret's Creek Sector of the Raritan Bay Slag Site is located between the Laurence Harbor and Cliffwood Beach sections of Old Bridge Township, Middlesex County, New Jersey.

##### 1.1.2.2 Description of Threat

EPA has conducted multiple sampling events at the Site since 2008 under both the removal and remedial programs. The sampling activities included the collection of soil, sediment, water, and waste samples within the Margaret's Creek Sector. Analytical results generated by EPA indicate that significantly elevated levels of lead and other heavy metals are present in the soils and sediment. Analytical results for surface soil samples collected within the Margaret's Creek Sector were as high as: 78,000 mg/kg for lead. Representative samples of the excavated wastes generated during previous mitigation work have exceeded the Resource Conservation and Recovery Act Toxicity Characteristic Leaching Procedure limit for lead (5 mg/l).

##### 1.1.3 Preliminary Remedial Assessment/Remedial Site Inspection Results

Information pertaining to the assessment and Site inspection results can be found in the Record of Decision (ROD) and the Final Design Analysis Report (DAR) for the Site, which are available through the Remedial Project Manager and website established for this Site.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

The overall approach to this Remedial Action is to remove crushed battery casings, slag and lead-contaminated soil to prevent the direct contact threat to the public and the migration of contaminated materials to adjacent wetlands, and public recreation areas.

As part of this approach, contaminated soil, slag, and debris is being excavated and stockpiled on a 30 mil HDPE impermeable liner. Stockpiled waste material are then screened to remove slag, rocks, and debris larger than 6-inches in size. The screening process results in two waste streams; 1) waste larger than 6-inches consisting primarily of slag and 2) waste less than 6-inches consisting primarily of soil, battery casings and smaller pieces of slag. Slag waste larger than 6-inches cannot be properly stabilized and must be crushed prior to treatment.

#### **2.1.2 Response Actions to Date**

Response actions completed prior to August 19, 2017 are described in previous POLREPs for the Site.

The following actions have been completed during this reporting period:

- \* Response actions in support of the Remedial Action included delineation soil sampling events for the purpose of defining the horizontal and vertical extent of lead contamination in areas of concern (AOC) identified in the DAR.
- \* On August 21, 22, 23, 24 and 28, 2017, hazardous waste (D008) was transported off-site for stabilization and disposal. To date, a total of 4,062 tons of hazardous waste (<6-inches) was transported off-site.
- \* Progress meetings with the Remedial Project Manager (RPM) were conducted on August 22 and September 5, 2017.
- \* On September 5, 2017, the contents of the four (4) buried 55-gallon drums identified in the western portion of AOC-H were transferred in a new polyethylene drum for disposal. A composite sample of the drum contents was collected, analyzed and found to contain elevated concentrations of Bis (2-ethylhexyl) phthalate and p-Isopropyltoluene.
- \* The excavation of the drums was initiated on September 5, after the transfer was complete. During excavation activities, an additional 19 drums were unearthed and observed to be significantly deteriorated and leaking. To minimize additional soil contamination, the drums were excavated and staged on plastic sheeting with the soils removed from this area. The impacted soil was used to absorb residual liquids present. During the inspection of the excavation sidewalls, additional pieces of drums were observed along the northern perimeter.
- \* On September 6, the post-excavation soil sample results from the base portion of AOC-H were received. All results were below the site remediation goal of 400 milligrams per kilogram (mg/kg).
- \* On September 6, 20 representative soil samples of proposed topsoil material were collected at the EME facility located in New Egypt, NJ. If approved for on-site use by EPA, 5,000 tons of upland topsoil and 2,000 tons of wetlands topsoil will be delivered to the Site.
- \* On September 7, the excavation of slag and contaminated soil from AOCs U, V and W was completed. Approximately 500 cubic yards of soil and slag material was excavated and placed into the soil stockpile area for screening.
- \* Perimeter air monitoring, in accordance with the Community Air Monitoring Plan (CAMP), was conducted by Weston Solutions, Inc. Weekly air monitoring summary reports are being provided to EPA and maintained on-site. No significant air exceedances were reported during the work day monitoring periods.
- \* On-site security services continued during non-working Site hours.
- \* Personal air monitoring on contractor operators and laborers began on July 20, 2017 and is being conducted by Environmental Restoration, LLC (ER). ER is EPA's emergency and rapid response services (ERRS) contractor for this project. To date, the personal air monitoring results for lead have been below the site-specific action level of 30 microgram per cubic meter (ug/m3) of air. The OSHA permissible exposure level for lead is 50 ug/m3).
- \* At this time, the project is estimated to be 10% complete.

#### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

Enforcement activities are being managed by the Remedial Program.

#### **2.1.4 Progress Metrics**

Stabilization of the waste containing slag less than 6-inches in diameter is being conducted by Clean Earth of New Jersey, Kearny, NJ and transported to Grows North Landfill in Morrisville, PA for disposal. See Additional Sources of Information section for waste shipping and disposal information.

## **2.2 Planning Section**

### **2.2.1 Anticipated activities for the next reporting period**

#### **2.2.1.1 Planned Response Activities**

- \* Continue excavation, segregation and stockpiling activities in AOC-E and F.
- \* Continue perimeter air monitoring in accordance with the Community Air Monitoring Plan (CAMP).
- \* Delivery of additional supplies.
- \* Loading waste for off-site disposal.
- \* Collection of delineation and post-excavation soil samples.
- \* Complete an evaluation of all post-excavation and delineation soil sample results to insure site remediation goals have been met.
- \* Complete drum and soil excavation activities within the western portion of AOC-H.

- \* Collection of a composite soil sample from the stockpile generated during drum excavation activities for disposal parameters.
- \* Disposal alternatives for the lead waste containing ACM are currently being evaluated by the ER and expected to be provided to EPA during the next planning period.

#### 2.2.1.2 Next Steps

- \* Preparation of the weekly air monitoring report.
- \* Conducting the weekly progress meeting with the RPM.

#### 2.2.2 Issues

The sequencing of excavation activities has deviated from the Design Analysis Report (DAR). Excavation work will proceed as follows: AOC H, E, U, V, W, S, Q, P, O, F, I, G, M, N, K, L/Y2, X1, X2, X3, Z and A.

In order to determine whether buried drums extended into AOC-E, test pits were excavated north and northwest of the buried 55-gallon drums within the western portion of AOC-H. Each test pit was located approximately 10-feet from the initial excavation and excavated to a depth of 8-feet below grade. No drums were observed in either test pit. Drum and contaminated soil excavation is scheduled to resume during the next reporting period. If additional drums are identified in other directions, test pits will be excavated to determine the extent.

Significant rainfall events may affect operations if the water level in Margaret's Creek rise and back up into the low-lying portions of the Site.

### 2.3 Logistics Section

No information available at this time.

### 2.4 Finance Section

#### 2.4.1 Narrative

On September 9, 2016, \$7,000,000 was allocated to the regional Emergency & Rapid Response Services (ERRS) contract for this project. On February 6, 2017, an additional \$6,550,000 was added to the existing funding for the Remedial Action.

Funding for the Removal Support Team (RST) was allocated on October 27, 2016 (\$200,000) and February 6, 2017 (\$450,000).

#### Estimated Costs \*

|                           | Budgeted        | Total To Date  | Remaining       | % Remaining |
|---------------------------|-----------------|----------------|-----------------|-------------|
| <b>Extramural Costs</b>   |                 |                |                 |             |
| ERRS - Cleanup Contractor | \$13,550,000.00 | \$1,122,000.00 | \$12,428,000.00 | 91.72%      |
| RST/START                 | \$650,000.00    | \$173,000.00   | \$477,000.00    | 73.38%      |
| <b>Intramural Costs</b>   |                 |                |                 |             |
|                           |                 |                |                 |             |
| <b>Total Site Costs</b>   | \$14,200,000.00 | \$1,295,000.00 | \$12,905,000.00 | 90.88%      |

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

### 2.5 Other Command Staff

#### 2.5.1 Safety Officer

None

#### 2.5.2 Liaison Officer

None

#### 2.5.3 Information Officer

None

### 3. Participating Entities

#### 3.1 Unified Command

#### 3.2 Cooperating Agencies

: New Jersey Department of Environmental Protection;  
 : Middlesex County Parks and Recreation;  
 : Middlesex County Mosquito Commission;  
 : Middlesex County Utilities Authority;  
 : Old Bridge Township Municipal Utilities Authority;  
 : Old Bridge Township Parks and Recreation.

### 4. Personnel On Site

EPA OSC  
 EPA RPM  
 ERRS Contractor (6-7 personnel)  
 RST 3 Contractor (1-2 personnel)

### 5. Definition of Terms

Not Applicable

6. Additional sources of information

6.1 Internet location of additional information/report

Not Applicable

6.2 Reporting Schedule

Not Applicable

6.3 Disposal Table

**Waste Stream      Medium      Manifest #      Quantity (tons)      Treatment      Disposal Facility**

Hazardous Waste      Soil/slag < 6"      017806063JJK      25.52      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806064JJK      26.41      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806065JJK      25.24      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806066JJK      26.55      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806038JJK      27.44      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806039JJK      27.93      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806040JJK      24.59      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806041JJK      25.97      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806042JJK      27.35      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806043JJK      25.61      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806044JJK      24.87      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806045JJK      26.11      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806046JJK      25.76      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806047JJK      24.13      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806048JJK      24.64      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806049jjk      25.73      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806050JJK      24.82      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806051JJK      26.14      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806052JJK      24.59      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806053jjk      24.58      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806055JJK      24.32      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806054JJK      26.7      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806056JJK      23.48      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806057JJK      26.35      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806058JJK      26.87      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806059JJK      22.98      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806060JJK      27.62      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806061JJK      27.52      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806062JJK      24.15      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806069JJK      26.54      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806067JJK      26.57      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806068JJK      26.31      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806070JJK      26.26      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806072JJK      24.97      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806071JJK      24.73      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806073JJK      25.39      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806074JJK      25.04      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806075JJK      25.91      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806076JJK      25.09      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806077JJK      25.48      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806079JJK      25.03      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806078JJK      25.78      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806080JJK      26.17      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806081JJK      28.27      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806082JJK      27.47      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806083JJK      26.61      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806084JJK      27.49      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017869590JJK      24.99      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017869589JJK      26.97      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017869588JJK      24.61      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806087JJK      25.51      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806086JJK      25.82      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806088JJK      27.06      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806089JJK      24.94      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806090JJK      25.38      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806091JJK      27.28      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806092JJK      27.52      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806093JJK      27.24      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017869587JJK      26.18      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806095JJK      23.82      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806097JJK      21.81      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806094JJK      26.22      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806096JJK      20.81      Stabilization      Landfill

Hazardous Waste      Soil/slag < 6"      017806098JJK      25.41      Stabilization      Landfill

|                 |                |              |        |               |          |
|-----------------|----------------|--------------|--------|---------------|----------|
| Hazardous Waste | Soil/slag < 6" | 017869586JJK | 22.11  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869585JJK | 22.48  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869559JJK | 21.02  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869557JJK | 22.71  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806099JJK | 22.54  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806100JJK | 23.45  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869555JJK | 24.82  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806102JJK | 23.77  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806103JJK | 23.85  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806104JJK | 26.34  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806105JJK | 25.63  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806101JJK | 24.47  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806106JJK | 25.64  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806107JJK | 26.15  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869552JJK | 24.98  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806108JJK | 25.92  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869553JJK | 22.7   | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869562JJK | 24.47  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806109JJK | 23.46  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869563JJK | 26.03  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806110JJK | 24.93  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869565JJK | 24.19  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869566JJK | 27.22  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869567JJK | 21.92  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869568JJK | 23.64  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869569JJK | 24.07  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806111JJK | 26.8   | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806112JJK | 24.83  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806009JJK | 24.86  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806011JJK | 24.86  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806010JJK | 26.09  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869570JJK | 25.28  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806012JJK | 25.82  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806013JJK | 23.06  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806014JJK | 25.26  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869571JJK | 23.37  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869572JJK | 23.31  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869573JJK | 24.025 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869574JJK | 23.31  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806015JJK | 24.61  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806016JJK | 24.19  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869575JJK | 22.96  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806017JJK | 23.44  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806018JJK | 24.12  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806019JJK | 23     | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806020JJK | 22.28  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869576JJK | 26.17  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869577JJK | 25.7   | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806021JJK | 25.06  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806022JJK | 25.08  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806023JJK | 24.85  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806024JJK | 26.07  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806025JJK | 25.4   | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806026JJK | 24.9   | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806027JJK | 24.75  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806028JJK | 26.11  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869578JJK | 23.94  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869579JJK | 24.42  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869580JJK | 24.04  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869581JJK | 24.65  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806029JJK | 25.88  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806030JJK | 24.18  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869582JJK | 22.81  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806031JJK | 21.73  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869583JJK | 24.37  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869584JJK | 25.33  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869596JJK | 25.43  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869595JJK | 26.29  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869594JJK | 24.65  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806032JJK | 25.49  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806033JJK | 25.57  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806330JJK | 25.22  | Stabilization | Landfill |

|                 |                |              |       |               |          |
|-----------------|----------------|--------------|-------|---------------|----------|
| Hazardous Waste | Soil/slag < 6" | 017806331JJJ | 25.99 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806332JJJ | 23.8  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869701JJJ | 23.73 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869702JJJ | 23.8  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869703JJJ | 23.85 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869704JJJ | 23.58 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806333jjk | 23.53 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869705JJJ | 25.31 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869706JJJ | 23.6  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869707JJJ | 25.27 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869708JJJ | 24.22 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869710JJJ | 25.26 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869711JJJ | 23.37 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869712JJJ | 25.79 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869709JJJ | 23.91 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869713JJJ | 23.57 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869714JJJ | 23.42 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869593JJJ | 24.04 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869592JJJ | 24.88 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806335JJJ | 24.16 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806334JJJ | 24.59 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806336JJJ | 22.93 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806337JJJ | 24.22 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017869591JJJ | 25.08 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806338JJJ | 24.59 | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806339JJJ | 24.6  | Stabilization | Landfill |
| Hazardous Waste | Soil/slag < 6" | 017806340JJJ | 24.43 | Stabilization | Landfill |

Total Tonnage:

4,062.25

## 7. Situational Reference Materials

Not Applicable